Claims

- [c1] An in-dash thermally controlled storage space system for a vehicle comprising:
 - a housing configured to reside within a dashboard of the vehicle;
 - at least one heat exchanger coupled to said housing; at least one thermoelectric device coupled to said at least one heat exchanger;
 - a temperature sensor generating a temperature signal indicative of temperature within said housing; and a controller coupled to said thermoelectric device and adjusting temperature within said housing in response to said temperature signal.
- [02] A system as in claim 1 wherein said housing is configured to couple at least a portion of at least one vehicle air control system selected from a heating system, a ventilation system, and an air-conditioning system.
- [03] A system as in claim 2 wherein said at least one thermoelectric device is coupled to said at least one vehicle air control system such that thermal energy is transferred therebetween.

- [c4] A system as in claim 2 further comprising a thermally conductive fluid transfer device coupled to said at least one thermoelectric device such that thermal energy is transferred therebetween.
- [c5] A system as in claim 4 further comprising at least one fluid circulating device coupled to said controller, said controller adjusts temperature within said housing by circulating a fluid within said at least one vehicle air control system to transfer thermal energy between said housing and said at least one vehicle air control system.
- [c6] A system as in claim 5 wherein said fluid is selected from at least one of air and liquid.
- [c7] A system as in claim 5 wherein said at least one fluid circulating device is a device selected from at least one of a fan, a blower, a pump, a fan of said at least one vehicle air control system, a blower of said at least one vehicle air control system, and a pump of said at least one vehicle air control system.
- [08] A system as in claim 4 wherein said thermally conductive fluid transfer device is in the form of a radiator.
- [09] A system as in claim 4 wherein said controller adjusts temperature within said housing by circulating a fluid across said thermally conductive fluid transfer device.

- [c10] A system as in claim 4 wherein said thermally conductive fluid transfer device is at least partially contained within said at least one vehicle air control system.
- [c11] A system as in claim 1 wherein said at least one heat exchanger is contoured to support at least one object within said housing.
- [012] A system as in claim 1 further comprising at least one control switch coupled to said controller and controlling operation of the in-dash thermally controlled storage space system.
- [c13] A system as in claim 1 further comprising a temperature control switch coupled to said controller and setting temperature within said housing.
- [014] A system as in claim 1 further comprising:
 a transmitter generating a control signal; and
 a receiver coupled to said controller;
 said controller operating the in-dash thermally controlled storage space system in response to said control signal.
- [c15] A system as in claim 14 wherein said controller in operating the in-dash thermally controlled storage space system performs a task selected from at least one of ac-

- tivation, deactivation, and temperature adjustment.
- [c16] A system as in claim 1 further comprising a docking support structure coupled within said dashboard, said housing configured to be removable from said docking support structure.
- [c17] A system as in claim 1 further comprising: a sensor coupled to said docking support structure; and an indicator coupled to said sensor and indicating when said housing is in said docking support structure.
- [c18] A system as in claim 1 wherein said housing comprises a vent.
- [c19] A thermally controlled storage space system for a vehicle comprising:
 - a housing configured to couple at least a portion of at least one vehicle air control system;
 - at least one heat exchanger coupled to said housing; at least one thermoelectric device coupled to said at least one heat exchanger;
 - a temperature sensor generating a temperature signal indicative of temperature within said housing; and a controller coupled to said thermoelectric device and adjusting temperature within said housing in response to said temperature signal.

An in-dash thermally controlled storage space system for a vehicle comprising:

[c20]

a housing configured to reside within a dashboard of the vehicle and couple at least a portion of at least one vehicle air control system selected from a heating system, a ventilation system, and an air-conditioning system; a temperature sensor generating a temperature signal indicative of temperature within said housing; at least one heat exchanger coupled to said housing; at least one thermoelectric device coupled to said at least one heat exchanger;

a thermally conductive fluid transfer device coupled to said at least one thermoelectric device and residing at least partially within said at least one vehicle air control system;

at least one fluid circulating device directing a fluid to said thermally conductive fluid transfer device; and a controller coupled to said thermoelectric device and said at least one fluid circulating device, said controller adjusting temperature within said housing in response to said temperature signal.